## Migrant species in Macedonia and Albania, 1994

(Insecta, Lepidoptera) by STOYAN BESHKOV & STANISLAV ABADJIEV received 17.VI.1995

Data for 40 migratory species found in Macedonia and Albania during spring 1994 are reported. For some of the species the number and the sex of the specimens are given. All species collected in Macedonia and Albania during 9.–17. April 1994 were collected by both of the authors. The species from Macedonia (May 1994) are collected by the first author.

Analysing the data, we can consider only *Cynthia cardui* (L.), *Hyles livornica* (ESPER), *Heliothis peltigera* ([D. & S.]) and probably *Trichoplusia ni* (HBN.) and *Spodoptera exigua* (HBN.) as migratory species in the area near to the Ionian Sea Coast. The above mentioned species are observed as coming from south of Butrinti, continuing their flight to Dhërmi and passing the mountains of Karaboruni Peninsula between Dhërmi and the Gulf of Vlora. Especially *Heliothis peltigera* ([D. & S.]) specimens are found flying during the day above Dhërmi in a direction to Llogara (in a typical migratory behaviour and following the direction south-north). Also there were a great number of grasshoppers, probably the migratory species *Locusta migratoria* and *Anacridium aegyptium* (not collected and precisely determined). The systematic order except for Noctuidae follows LERAUT (1980); systematics of Noctuidae is given according to Fibiger & Hacker (1990).

### Family Pyralidae

Nomophila noctuella ([DENIS & SCHIFFERMÜLLER], 1775)

SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, 2 males and 1 female, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp; SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp.

Uresiphita limbalis ([Denis & Schiffermüller], 1775)

NW Albania, Shkodra Lake, Tarabosh Mts, Zogaj, 12.IV.1994, 1 female, S. Beshkov & S. Abadjiev leg. on 400 W UV-lamp.

Palpita unionalis (HÜBNER, 1796)

SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, 1 male, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp.

#### Family Papilionidae

### Iphiclides podalirius (LINNAEUS, 1758)

Tirana, 11.IV.1994, single specimen observed; S Albania, Syri i Kaltër (the springs of the Bistrica River), 17.IV.1994, S. BESHKOV & S. ABADJIEV leg.; Macedonia, Plachkovitza Mt, Podaresh, Radovish Region, 13.V.1994, S. BESHKOV observed.

#### Papilio machaon LINNAEUS, 1758

SW Albania, Ionian Sea Coast, near Butrinti, 16.IV.1994, several specimens, S. BESHKOV & S. ABADJIEV leg., 1 female in coll. BESHKOV; Mts of Musina, 4km from Musina on the way to Gjirokastra, Delvina Region, 17.IV.1994, S. BESHKOV & S. ABADJIEV leg.; S Albania, Yorgucati, Gjirokastra Region, 17.IV.1994, S. BESHKOV & S. ABADJIEV leg.

#### Papilio alexanor Espen, [1793]

SW Albania, Ionian Sea Coast, near Butrinti, 16.IV.1994, several specimens, S. Beshkov & S. Abaddiev leg., 1 male and 1 female in coll. Beshkov.

#### Family Pieridae

## Aporia crataegi (LINNAEUS, 1758)

Macedonia, "Mladost" Lake near Veles Town, 14.V.1994, S. Beshkov observed.

#### Pieris rapae (LINNAEUS, 1758)

SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, S. BESHKOV & S. ABADJIEV leg.; SW Albania, near Volloderi, Saranda Region, 16.IV.1994, S. BESHKOV & S. ABADJIEV leg.; SW Albania, near Butrinti, 16.IV.1994, S. BESHKOV & S. ABADJIEV leg.

#### Pieris brassicae (LINNAEUS, 1758)

Tirana, 11.IV.1994, single specimen observed; NW Albania, Shkodra Lake, Tarabosh Mts, Zogaj, 12.IV.1994 on 400 W UV-lamp, one pupa, S. Beshkov & S. Abadjiev leg.; SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, S. Beshkov & S. Abadjiev leg.; SW Albania, near Butrinti, 16.IV.1994, S. Beshkov & S. Abadjiev leg.; Mts of Musina, 4 km from Musina on the way to Gjirokastra, Delvina Region, 17.IV.1994, S. Beshkov & S. Abadjiev leg.

#### Pontia edusa (FABRICIUS, 1777)

S Albania, Syri i Kaltër, (the springs of the Bistrica River), 17.IV.1994, S. ВЕSHKOV & S. ABADJIEV leg.; Macedonia, Katlanovo, Skopie Region, 14.V.1994, single specimen, S. ВЕSHKOV observed.

## Colias crocea (Geoffroy, 1785)

Macedonia, Trnovac, Kumanovo Region, 09.IV.1994, S. ABADJIEV leg., 1 male in coll. ВЕSH-коv; SW Albania, near Volloderi, Saranda Region, 16.IV.1994, S. BESHKOV & S. ABADJIEV leg.; SW Albania, near Butrinti, 16.IV.1994, S. BESHKOV & S. ABADJIEV leg.; S Albania, Yorgucati, Gjirokastra Region, 17.IV.1994, S. BESHKOV & S. ABADJIEV leg.; Macedonia, Plachkovitza Mt, Podaresh, Radovish Region, 13.V.1994, S. BESHKOV observed.

#### Gonepteryx cleopatra (LINNAEUS, 1767)

SW Albania, near Saranda, 16.IV.1994, S. BESHKOV & S. ABADJIEV observed, 1 male and 1 female; SW Albania, near Butrinti, 16.IV.1994, S. BESHKOV & S. ABADJIEV observed 2 males.

### Family Nymphalidae

#### Subfamily Nymphalinae

#### Nymphalis antiopa (LINNAEUS, 1758)

S Albania, Syri i Kaltër, (the springs of the Bistrica River), 17.IV.1994, S. Везнкоv & S. Аваллеч observed.

## Vanessa atalanta (LINNAEUS, 1758)

SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, S. BESHKOV & S. ABADJIEV leg.; SW Albania, near Butrinti, 16.IV.1994, S. BESHKOV & S. ABADJIEV leg.; S Albania, Syri i Kaltër (the springs of the Bistrica River), 17.IV.1994, S. BESHKOV & S. ABADJIEV leg.; S Albania, Yorgucati, Gjirokastra Region, 17.IV.1994, S. BESHKOV & S. ABADJIEV leg.

### Cynthia cardui (LINNAEUS, 1758)

SW Albania, Llogara, 1000 m, 15.IV.1994, between 10.10–10.30 AM in a great number coming from south, S. Beshkov and S. Abadjiev leg.; SW Albania, near Butrinti, 16.IV.1994, S. Beshkov & S. Abadjiev leg.; S Albania, Yorgucati, Gjirokastra Region, 17.IV.1994, S. Beshkov & S. Abadjiev leg.; Macedonia, Plachkovitza Mt, Podaresh, Radovish Region, 13.V.1994, S. Beshkov observed.

### Issoria lathonia (LINNAEUS, 1758)

S Albania, Yorgucati, Gjirokastra Region, 17.IV.1994, S. BESHKOV & S. ABADJIEV leg.; Macedonia, Plachkovitza Mt, Podaresh, Radovish Region, 13.V.1994, S. BESHKOV observed; Macedonia, Katlanovo, Skopie Region, 14.V.1994, S. BESHKOV observed.

## Family Lycaenidae

# Lycaena phlaeas (Linnaeus, 1758)

SW Albania, Llogara, 1000 m, 15.IV.1994, S. BESHKOV and S. ABADJIEV leg.; SW Albania, near Volloderi, Saranda Region, 16.IV.1994, S. BESHKOV & S. ABADJIEV leg.; Mts of Musina, 4 km from Musina on the way to Gjirokastra, Delvina Region, 17.IV.1994, S. BESHKOV & S. ABADJIEV leg.; S Albania, Yorgucati, Gjirokastra Region, 17.IV.1994, S. BESHKOV & S. ABADJIEV leg.; Macedonia, Plachkovitza Mt, Podaresh, Radovish Region, 13.V.1994, S. BESHKOV leg., 1 male in coll. BESHKOV.

#### Family Geometridae

### Cyclophora puppillaria (HÜBNER, [1799])

SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp, 2 males and 2 females in coll. BESHKOV; S Albania, Fushë Lekli, Tepelene Region, 17.IV.1994, S. BESHKOV and S. ABADJIEV leg. on 125 W Hg-lamp, 1 female in coll. BESHKOV.

#### Rhodometra sacraria (LINNAEUS, 1767)

SW Albania, Levan, 5 km from Fieri on the road to Vlora, Koshovca Gorge, 14.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp, 1 male in coll. Beshkov (the specimen is very unusual, differs from the others by its dark-rose coloured forewings, the narrow white field, following distally the transversal line, the dark-rose costa and the larger wingspan—25.5 mm; it is probably a still undescribed form; a colour photo will be published later); SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, 1 female, S. Beshkov & S. Abaddiev leg. on 125 W Hg-lamp.

### Orthonama obstipata (FABRICIUS, 1794)

SW Albania, Levan, 5km from Fieri on the road to Vlora, Koshovca Gorge, 14.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp, 1 male in coll. Beshkov; SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp, 1 female in coll. Beshkov.

#### Family Sphingidae

## Hyles euphorbiae (Linnaeus, 1758)

SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. Beshkov & S. Abadulev leg. on 125 W Hg-lamp, 1 male in coll. Beshkov.

## Hyles livornica (ESPER, 1779)

SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp, 1 female in coll. BESHKOV; SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, numerous specimens, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp, 2 females and 4 males in coll. BESHKOV. Most of the specimens collected and observed near Butrinti were of an unusual small size. The smallest female had a wingspan of 47.5 mm, the smallest male one of 52 mm, the largest female a wingspan of 101 mm, the largest male one of 99 mm; S Albania, Fushë Lekli, Tepelene Region, 17.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp.

### Family Noctuidae

#### Subfamily Catocalinae

# Tyta luctuosa ([Denis & Schiffermüller], 1775)

SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp.

### Subfamily Acontiinae

#### Acontia lucida (Hufnagel, 1766)

SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp.

## Eublemma parva (HÜBNER, [1808])

SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp, 1 male in coll. BESHKOV.

### Subfamily Plusiinae

#### Autographa gamma (LINNAEUS, 1758)

Macedonia, Stobi on Tcherna Reka River, Kavadartzi Region, 09.IV.1994 on 400 W UV-lamp 1 male; NW Albania, Shkodra Lake, Tarabosh Mts, Shiroka, 11.IV.1994 on 400 W UV-lamp, 3 specimens; NW Albania, Shkodra Lake, Tarabosh Mts, Zogaj, 12.IV.1994 on 400 W UV-lamp, 4 males and 1 female, S. Beshkov & S. Abadjiev leg.; SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, 3 males, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp; SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp; S Albania, Fushë Lekli, Tepelene Region, 17.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp; Macedonia, Katlanovo, Skopie Region, 14.V.1994, during day.

## Trichoplusia ni (HÜBNER, [1803])

NW Albania, Shkodra Lake, Tarabosh Mts, Zogaj, 12.IV.1994 on 400 W UV-lamp, 2 males, S. ВЕЗНКОV & S. ABADJIEV leg.; SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, S. ВЕЗНКОV & S. ABADJIEV leg. on 125 W Hg-lamp, 10 males and 3 females, 1 male in coll. ВЕЗНКОV; SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. ВЕЗНКОV & S. ABADJIEV leg. on 125 W Hg-lamp, 1 female in coll. ВЕЗНКОV; S Albania, Fushë Lekli, Tepelene Region, 17.IV.1994, S. ВЕЗНКОV & S. ABADJIEV leg. on 125 W Hg-lamp.

### Subfamily Heliothinae

#### Heliothis peltigera ([DENIS & SCHIFFERMÜLLER], 1775)

NW Albania, Shkodra Lake, Tarabosh Mts, Shiroka, 11.IV.1994 on 400 W UV-lamp; NW Albania, Shkodra Lake, Tarabosh Mts, Zogaj, 12.IV.1994 on 400 W UV-lamp, 4 males and 1 female, S. Beshkov & S. Abadjiev leg.; SW Albania, Levan, 5 km from Fieri on the road to Vlora, Koshovca Gorge, 14.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp, 1 male in coll. Beshkov; S Albania, above Dhërmi on the way to Llogara, 15.IV.1994, many specimens during daytime together with a great number of grasshoppers, probably *Locusta migratoria* and *Anacridium aegyptium*; SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, 32 males and 11 females, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp; SW Albania, near Volloderi, Saranda Region, 16.IV.1994, during day, S. Beshkov & S. Abadjiev leg.; SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp.

#### Subfamily Ipimorphinae

## Hoplodrina blanda ([DENIS & SCHIFFERMÜLLER], 1775)

SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp, 1 male in coll. BESHKOV.

### Spodoptera exigua (HÜBNER, [1808])

SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp, 6 males and 1 female, 1 female in coll. BESHKOV; SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp.

# Phlogophora meticulosa (LINNAEUS, 1758)

NW Albania, Shkodra Lake, Tarabosh Mts, Zogaj, 12.IV.1994 on 400 W UV-lamp, 1 male and 1 female, S. Beshkov & S. Abadjiev leg.; SW Albania, Levan, 5 km from Fieri on the road to Vlora, Koshovca Gorge, 14.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp.

## Subfamily Hadeninae

## Mythimna albipuncta ([DENIS & SCHIFFERMÜLLER], 1775)

SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp; Macedonia, Bani Katlanovo, Skopie Region, 14.V.1994 on 125 W Hg-lamp.

# Mythimna vitellina (HÜBNER, [1808])

SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp; S Albania, Fushë Lekli, Tepelene Region, 17.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp.

## Mythimna I-album (LINNAEUS, 1758)

NW Albania, Shkodra Lake, Tarabosh Mts, Zogaj, 12.IV.1994 on 400 W UV-lamp, 1 male and 1 female, S. Beshkov & S. Abadjiev leg.; SW Albania, Levan, 5 km from Fieri on the road to Vlora, Koshovca Gorge, 14.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp, 1 male and 1 female, 1 female in coll. Beshkov; SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, 1 female, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp; SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp; S Albania, Fushë Lekli, Tepelene Region, 17.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp.

#### Pseudaletia unipuncta (Haworth, 1809)

SW Albania, Levan, 5 km from Fieri on the road to Vlora, Koshovca Gorge, 14.IV.1994, S. Beshkov & S. Abaddiev leg. on 125 W Hg-lamp, 4 females in coll. Beshkov; SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. Beshkov & S. Abaddiev leg. on 125 W Hg-lamp.

#### Subfamily Noctuinae

#### Tribe Noctuini

#### Noctua pronuba Linnaeus, 1758

SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, S. BESHKOV & S. ABADJIEV leg. on 125 W Hg-lamp.

## Xestia c-nigrum (LINNAEUS, 1758)

Macedonia, Bani Katlanovo, Skopie Region, 14.V.1994 on 125 W Hg-lamp.

## Tribe Agrotini

## Peridroma saucia (HÜBNER, [1808])

SW Albania, Levan, 5 km from Fieri on the road to Vlora, Koshovca Gorge, 14.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp, 1 female in coll. Beshkov; SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp, 2 males.

## Agrotis ipsilon (HUFNAGEL, 1766)

NW Albania, Shkodra Lake, Tarabosh Mts, Zogaj, 12.IV.1994 on 400 W UV-lamp, 2 males, S. Beshkov & S. Abadjiev leg.; SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp; S Albania, Fushë Lekli, Tepelene Region, 17.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp.

# Agrotis segetum ([DENIS & SCHIFFERMÜLLER], 1775)

NW Albania, Shkodra Lake, Tarabosh Mts, Zogaj, 12.IV.1994 on 400 W UV-lamp, 1 female, S. Beshkov & S. Abadjiev leg.; SW Albania, Ionian Sea Coast, Dhërmi, 15.IV.1994, 3 males,

S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp; SW Albania, near the opening of the canal of the Butrinti Lake, 16.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp; S Albania, Fushë Lekli, Tepelene Region, 17.IV.1994, S. Beshkov & S. Abadjiev leg. on 125 W Hg-lamp.

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